

HAZARD RANKING SYSTEM SCORING SUMMARY

FOR

VERMONT AMERICAN CORPORATION
EPA SITE NUMBER GAD084362656
TOCCOA
STEPHENS COUNTY, GA
EPA REGION: 4

SCORE STATUS: IN PREPARATION

SCORED BY TERRY TANNER
OF NUS CORPORATION
ON 03/25/88

DATE OF THIS REPORT: 05/03/88
DATE OF LAST MODIFICATION: 05/03/88

GROUND WATER ROUTE SCORE : 24.87
SURFACE WATER ROUTE SCORE: 2.69
AIR ROUTE SCORE : 0.00

MIGRATION SCORE : 14.46

HRS GROUND WATER ROUTE SCORE

CATEGORY/FACTOR	RAW DATA	ASN. VALUE	SCORE
1. OBSERVED RELEASE	NO	0	0
2. ROUTE CHARACTERISTICS			
DEPTH TO WATER TABLE	60 FEET		
DEPTH TO BOTTOM OF WASTE	0 FEET		
DEPTH TO AQUIFER OF CONCERN	60 FEET	2	4
PRECIPITATION	60.0 INCHES		
EVAPORATION	39.0 INCHES		
NET PRECIPITATION	21.0 INCHES	3	3
PERMEABILITY	1.0×10^{-3} CM/SEC	2	2
PHYSICAL STATE		3	3
TOTAL ROUTE CHARACTERISTICS SCORE:			12
3. CONTAINMENT		3	3
4. WASTE CHARACTERISTICS			
TOXICITY/PERSISTENCE: CHROMIUM			18
WASTE QUANTITY CUBIC YDS	0		
DRUMS	0		
GALLONS	0		
TONS	0		
TOTAL	0 CU. YDS	0	0
TOTAL WASTE CHARACTERISTICS SCORE:			18
5. TARGETS			
GROUND WATER USE		2	6
DISTANCE TO NEAREST WELL	3000 FEET		
AND	MATRIX VALUE	16	16
TOTAL POPULATION SERVED	737 PERSONS		
NUMBER OF HOUSES	194		
NUMBER OF PERSONS	0		
NUMBER OF CONNECTIONS	0		
NUMBER OF IRRIGATED ACRES	0		
TOTAL TARGETS SCORE:			22
GROUND WATER ROUTE SCORE (Sgw) = 24.87			

HRS SURFACE WATER ROUTE SCORE

CATEGORY/FACTOR	RAW DATA	ASN. VALUE	SCORE
1. OBSERVED RELEASE	NO	0	0
2. ROUTE CHARACTERISTICS			
SITE LOCATED IN SURFACE WATER	NO		
SITE WITHIN CLOSED BASIN	NO		
FACILITY SLOPE	0.0 %		
INTERVENING SLOPE	0.0 %	0	0
24-HOUR RAINFALL	2.5 INCHES	2	2
DISTANCE TO DOWN-SLOPE WATER	3000 FEET	2	4
PHYSICAL STATE	2		2
TOTAL ROUTE CHARACTERISTICS SCORE:			8
3. CONTAINMENT	1		1
4. WASTE CHARACTERISTICS			
TOXICITY/PERSISTENCE: CHROMIUM			18
WASTE QUANTITY CUBIC YDS	0		
DRUMS	0		
GALLONS	0		
TONS	0		
TOTAL	0 CU. YDS	0	0
TOTAL WASTE CHARACTERISTICS SCORE:			18
5. TARGETS			
SURFACE WATER USE		2	6
DISTANCE TO SENSITIVE ENVIRONMENTS		3	6
COASTAL WETLANDS	0 FEET		
FRESH-WATER WETLANDS	7500 FEET		
CRITICAL HABITAT	0 FEET		
DISTANCE TO STATIC WATER	7000 FEET		
DISTANCE TO WATER SUPPLY INTAKE	26000 FEET		
AND MATRIX VALUE		0	0
TOTAL POPULATION SERVED	0		
NUMBER OF HOUSES	0		
NUMBER OF PERSONS	0		
NUMBER OF CONNECTIONS	0		
NUMBER OF IRRIGATED ACRES	0		
TOTAL TARGETS SCORE:			12

SURFACE WATER ROUTE SCORE (S_{SW}) = 2.69

AIR ROUTE SCORE

CATEGORY/FACTOR	RAW DATA	ASN. VALUE	SCORE
1. OBSERVED RELEASE	NO	0	0

2. WASTE CHARACTERISTICS

REACTIVITY:

INCOMPATIBILITY

TOXICITY

WASTE QUANTITY CUBIC YARDS

DRUMS

GALLONS

TONS

TOTAL

MATRIX VALUE

TOTAL WASTE CHARACTERISTICS SCORE:

N/A

3. TARGETS

POPULATION WITHIN 4-MILE RADIUS

0 to 0.25 mile

0 to 0.50 mile

0 to 1.0 mile

0 to 4.0 miles

DISTANCE TO SENSITIVE ENVIRONMENTS

COASTAL WETLANDS

FRESH-WATER WETLANDS

CRITICAL HABITAT

DISTANCE TO LAND USES

COMMERCIAL/INDUSTRIAL

PARK/FOREST/RESIDENTIAL

AGRICULTURAL LAND

PRIME FARMLAND

HISTORIC SITE WITHIN VIEW?

TOTAL TARGETS SCORE:

N/A

AIR ROUTE SCORE (Sa) = 0.00

HAZARD RANKING SYSTEM SCORING CALCULATIONS
FOR
SITE: VERMONT AMERICAN CORPORATION
AS OF 05/03/88

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GROUND WATER ROUTE SCORE

ROUTE CHARACTERISTICS		12
CONTAINMENT	X	3
WASTE CHARACTERISTICS	X	18
TARGETS	X	22

$$= 14256 / 57,320 \times 100 = 24.87 = S_{gw}$$

SURFACE WATER ROUTE SCORE

ROUTE CHARACTERISTICS		8
CONTAINMENT	X	1
WASTE CHARACTERISTICS	X	12
TARGETS	X	12

$$= 1728 / 64,350 \times 100 = 2.69 = S_{sw}$$

AIR ROUTE SCORE

$$\text{OBSERVED RELEASE} \quad 0 / 35,100 \times 100 = 0.00 = S_{air}$$

SUMMARY OF MIGRATION SCORE CALCULATIONS

	<u>S</u>	<u>S²</u>
GROUND WATER ROUTE SCORE (S _{gw})	24.87	618.52
SURFACE WATER ROUTE SCORE (S _{sw})	2.69	7.24
AIR ROUTE SCORE (S _{air})	0.00	0.00
S _{gw} ² + S _{sw} ² + S _{air} ²		625.76
√ (S _{gw} ² + S _{sw} ² + S _{air} ²)		25.02
S _m = √ (S _{gw} ² + S _{sw} ² + S _{air} ²) / 1.73		14.46